

### Spec Chem Industry Inc.

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## Amino Acid Dandruff Control Shampoo

(10% SpecSufc<sup>®</sup> APG1214)

### Features:

Sulfate-free, Silicone-free, Anti-dandruff, Anti-pruritic, Mild Scalp Care.

Phase	Product Name	INCI Name	w/w%	Function
A	Water		To 100	
	Sodium Cocoyl Alaninate		10.0	Hair conditioning
	Cocamidopropyl Betaine		20	Hydrophilic Thickener
	<b>SpecSufc<sup>®</sup> APG1214</b>	Lauryl Glucoside	10	Nonionic Surfactant
B	<b>SpecKare<sup>®</sup> PQ-7</b>	Polyquaternium-7	0.5	Film-forming agent
	Disodium EDTA		0.1	Chelating Agent
	<b>SpecKare<sup>®</sup> PO</b>	Piroctone Olamine	0.3	Anti-dandruff
	<b>SpecKare<sup>®</sup> DPA</b>	Panthenol	0.5	Humectant
	Citric Acid		pH to 6.5	pH Adjuster
	Fragrance		0.2	

### Procedure:

1. Mix part A and heat to 80 °C, stirring until completely dissolved;
2. Cool the base below 45 °C, then add part B, stirring until room temperature.

### Properties:

Appearance	Clear, lightly yellowish and viscous liquid
pH	6.58 (1:10 aqueous solution)
Viscosity	7420 (25 °C, 4 #, 30 rpm, mpa·s)
Stability	45 °C for a month; -18 °C for a month